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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/796,198 03/10/2004		John Burwell	2549-114-27	2440
7590 09/26/2006			EXAMINER	
PIPER RUDNICK LLP			MAYO, TARA L	
	ent Prosecution Services			
1200 Nineteenth Street, N.W.		•	ART UNIT	PAPER NUMBER
Washington, D	C 20036-2412	•	3671	

DATE MAILED: 09/26/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
Office Action Summary		10/796,198	BURWELL ET AL	BURWELL ET AL.	
		Examiner	Art Unit		
		Tara L. Mayo	3671		
Period fo	The MAILING DATE of this communication ap	opears on the cover she	et with the correspondence a	ddress	
A SH WHIC - Exter after - If NC - Failu Any I	ORTENED STATUTORY PERIOD FOR REPLEMENTS IS LONGER, FROM THE MAILING Insions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. In period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by staturely received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMM .136(a). In no event, however, m d will apply and will expire SIX (6) tte, cause the application to become	UNICATION. lay a reply be timely filed MONTHS from the mailing date of this one ABANDONED (35 U.S.C. § 133).	,	
Status -					
2a)□	Responsive to communication(s) filed on 25. This action is FINAL . 2b) The Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal	•	e merits is	
Dispositi	on of Claims				
5)□ 6)⊠ 7)□ 8)□	Claim(s) <u>1,3-5,7-11,14-24,26-28,30,31 and 3</u> 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) <u>1,3-5,7-11,14-24,26-28,30,31 and 3</u> Claim(s) is/are objected to. Claim(s) are subject to restriction and/	awn from consideration 4-38 is/are rejected.			
Applicati	on Papers				
10)⊠	The specification is objected to by the Examin The drawing(s) filed on <u>20 June 2005</u> is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the corre The oath or declaration is objected to by the E	a) \boxtimes accepted or b) \square \circ e drawing(s) be held in ab ction is required if the draw	eyance. See 37 CFR 1.85(a). wing(s) is objected to. See 37 C	CFR 1.121(d).	
Priority u	ınder 35 U.S.C. § 119				
12) a)[Acknowledgment is made of a claim for foreig All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority application from the International Burea see the attached detailed Office action for a list	nts have been received nts have been received ority documents have b au (PCT Rule 17.2(a)).	in Application No een received in this National	I Stage	
Attachmen	e of References Cited (PTO-892)	4) 🔲 Interv	iew Summary (PTO-413)		
2) Notic 3) Inform	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date 2-25-66	Paper 5) 🔲 Notice	No(s)/Mail Date e of Informal Patent Application :		

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 25 July 2006 has been entered.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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4. Claims 1, 3through 5, 7 through 11, 14 through 24, 26 through 28, 30, 31 and 34 through 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Manger et al. (U.S. Patent No. 6,729,797 B2) in view of Berg et al. (U.S. Patent No. 5,544,974A), Berg et al. (U.S. Patent Publication No. 2002/0084276 A1) and McGill et al. (U.S. Patent No. 6,886,388 B1).

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Manger et al. '797, as seen in Figures 1, 2C, 3 and 4, show an underground storage system comprising:

with regard to claim 1,

a double walled riser sump (10) having spaced apart, vertical inner and outer walls (16C, 20C) defining an annular space (22C) through which fluid may flow (col. 5, lines 14 through 18); and

a monitoring liquid reservoir (32; col. 8, line 64 through col. 9, line 4) in liquid communication with the annular space;

wherein the reservoir is positioned near the top, whereby the reservoir is accessible from a space adjacent said top;

with regard to claim 3,

wherein the reservoir is connected to the annular space by two tubes (as seen in Figure 4, connected to ports 24 and 141), and the reservoir has a vent hole formed near an end of the reservoir;

with regard to claims 4 and 23,

further comprising a thin film (30) disposed within the annular space, such that liquid can flow through out the annular space (col. 5, lines 5 through 30); with regard to claims 5 and 24,

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further comprising a distance fabric (30) disposed within the annular space, the distance fabric allowing liquids to flow within the annular space (col. 5, lines 5 through 30); with regard to claim 17,

wherein the sump has a round cross sectional shape;

with regard to claim 21,

wherein the top is double-walled; and

with regard to claim 30,

wherein the reservoir is connected to the annular space by two tubes, and the reservoir has a vent hole (40) formed near a top of the reservoir.

Manger et al. '797 disclose all of the features of the claimed invention with the exception(s) of:

an underground storage tank;

the vertical wall of the sump being formed from a riser and a collar in fluid communication with each other;

an alignment sleeve;

the monitoring liquid reservoir being filled with brine;

a liquid sensor disposed within the annular space;

the underground tank being a double-walled storage tank;

the sump being formed from fiber reinforced plastic;

the tank being formed from fiber reinforced plastic;

the tank having a cross-sectional shape in the form of a polygon; and

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the top of the sump being double-walled with an annular space in fluid communication with the annular space in the vertical wall.

Berg et al. '974, as seen in Figure 3, shows a double walled (102, 104) underground storage tank comprising a sump.

Berg et al. '276 expressly teach the use of brine for detecting leaks in a multiple wall underground storage tank (para. 0042).

McGill et al. '388, as seen in Figure 8, show an underground storage tank comprising a sump (22) having a vertical wall and terminating in a top, wherein the vertical wall is formed from a riser and a collar, the collar being attached to the top of the sump and the riser being attached to the collar, the riser being formed from an inner riser wall (14) and an outer riser wall (20) that together define a riser annular space (72), the collar (124) being formed from an inner collar wall (the lower member of element 124) and an outer collar wall (the upper member of element 124) that together define a collar annular space, the riser annular space and the collar annular space being in fluid communication together (via 110P), and further comprising an alignment sleeve (112), the alignment sleeve having a first portion in a closely spaced adjacent relationship to the riser and a second portion in a closely spaced adjacent relationship to the riser and a second portion in a closely spaced adjacent relationship to the collar, wherein the alignment sleeve is adjacent to the inner collar wall and the inner riser wall and adjacent to the outer collar wall and the outer riser wall, and wherein the top is a double walled top defining a top annular space (76), and the top is attached to the vertical wall such that the top annular space is in fluid communication with the annular space in the vertical wall.

With regard to claims 1, 14 and 22, it would have been obvious to one having ordinary skill in the art of fluid storage at the time the invention was made to modify the device shown by Manger et al. '797 such that it would include a double walled underground storage tank as taught by Berg et al. '974. The motivation would have been for the safe underground storage of fuel.

With regard to claims 1 and 22, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the device shown by Manger et al. '797 such that the vertical wall would be formed from a riser and a collar, both double walled and having annular spaces between the walls McGill et al. '388. The motivation would have been to provide the sump with means for detecting and testing leaks.

With regard to claims 7 through 9, 26 and 28, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the device shown by Manger et al. '797 and Berg et al. '974 such that it would include an alignment sleeve as taught by McGill et al. '388. The motivation would have been to facilitate positioning of the sump.

With regard to claims 1, 10 and 22, it would have been obvious to one having ordinary skill in the art of testing at the time the invention was made to modify the device taught by the combination of Manger et al. '797, Berg et al. '974 and McGill et al. '388 such that the reservoir would be filled with brine as taught by Berg et al. '276 since its use as a monitoring fluid is well known.

With regard to claims 11 and 31, the Examiner takes Official Notice of the use of sensors for leak detection in annular spaces.

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With regard to claims 15 and 16, the Examiner takes Official Notice of the known use of fiber reinforced plastic for forming sumps and underground storage tanks due to its non-corrosive properties.

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With regard to claims 18 through 20 and 35 through 37, it would have been obvious to one having ordinary skill in the art at the time the invention was made to make the sump shown by the combination of Manger et al. '797, Berg et al. '974 and McGill et al. '388 with a polygonal cross section having a desired number of sides since it has been held that a mere change in configuration of a claimed device is a matter of choice absent persuasive evidence that the particular configuration of the claimed device is significant. *In re Dailey*, 357 F.2d 669, 149 USPQ 47 (CCPA 1966).

With regard to claims 22 through 24 and 26 through 38, the method steps recited therein are inherent to the assembly of the device shown by the combination of Manger et al. '797, Berg et al. '974 and McGill et al. '388.

With specific regard to claim 38, it would have been obvious to one having ordinary skill in the art at the time of invention to make the top of the sump shown by the combination of Manger et al. '797, Berg et al. '974 and McGill et al. '388 double walled with an annular space in communication with the annular space in the vertical wall as further taught by McGill et al. '388. The motivation would have been to facilitate detection of leaks in the sump.

Response to Arguments

5. Applicant's arguments filed 25 July 2006 have been fully considered but they are not persuasive.

In response to Applicant's statement that the device taught by Manger et al. '797 could only incorporate the use of a gaseous monitoring fluid, the Examiner contends that the prior art does not preclude the use of a liquid. The passage cited by Applicant in the Remarks on page 11 uses the terms "may" and "Alternatively." Such language does not support Applicant's finding of the exclusive use of a gas as a monitoring fluid.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tara L. Mayo whose telephone number is 571-272-6992. The examiner can normally be reached on Monday through Friday 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas B. Will can be reached on 571-272-6998. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

tlm

18 September 2006

PATENT EXAMINER